

ABSTRACT

The present invention provides (A) a method for the selection of genes participating in the desired brewing character, which comprises preparing a database compiling the data of the whole genome sequence of industrial yeast, particularly a brewing yeast used for alcoholic beverages; selecting gene participating in a desired brewing character that the brewing yeast specifically possesses; and carrying out functional analysis of the gene by disruption or overexpression; (B) a DNA array in which oligonucleotide(s) selected based on the data base compiling the data of the whole genome sequences of an industrial yeast, (C) a breeding method for constructing improved cultures achieving the desired brewing character, (D) a method for producing an alcohol or an alcoholic beverage in which productivity and quality are improved using the yeast, (E) a gene which is specific to the improved brewing yeast, and (F) a peptide encoded by the gene.